

REPUBLIC OF FRANCE

NATIONAL INSTITUTE
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INDUSTRIAL PROPERTY

SEARCH REPORT

prepared on the basis of the latest
claims filed before the search was started

National Registration No.:

FA 585942
FR 0005639

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application											
Category	Documents cited stating pertinent parts where necessary												
X	US 4 339 874 (MC CARTY FREDRICK B ET AL) July 20, 1982 (07-20-1982)	1-5 18-21	H02K1/28 H02K21/14										
Y	* column 1, line 55 - line 61, figure 1* *column 2, line 64 - line 66* *column 3, line 32 - line 39; claim 1*	6-8, 12, 13											
Y	FR 2 655 784 A (ALSTHOM GEC) June 14, 1991 (06-14-1991)	6-8											
A	*column 1, line 1 - line 2; figures 1-3, 5* *column 5, line 13 - line 17*	14-16											
Y	US 5 162 686 A (ROYER LAURENT) November 10, 1992 (11-10-1992)	12, 13											
A	*column 1, line 1 - line 3; figures 2, 5* *column 2, line 58 - line 60*												
A	EP 0 143 693 A (FRANKLIN ELECTRIC CO INC) June 5, 1985 (06-05-1985) *abstract; figure 11*	9, 10	Search Classes (Int. Cl. Int. CL.7) H02K										
Date of Search: January 22, 2001		Examiner: Contreras Sampayo, J											
<p>CATEGORIES OF DOCUMENTS CITED</p> <table border="0"> <tr> <td>X: particularly pertinent by itself</td> <td>T: theory or principle at the basis of the invention</td> </tr> <tr> <td>Y: particularly pertinent in combination with another document in the same category</td> <td>E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date</td> </tr> <tr> <td>A: pertinent to at least one claim or general technological background</td> <td>D: cited in application</td> </tr> <tr> <td>O: unwritten disclosure</td> <td>L: cited for other reason</td> </tr> <tr> <td>P: intervening document</td> <td>&: members of the same family, corresponding document</td> </tr> </table>				X: particularly pertinent by itself	T: theory or principle at the basis of the invention	Y: particularly pertinent in combination with another document in the same category	E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date	A: pertinent to at least one claim or general technological background	D: cited in application	O: unwritten disclosure	L: cited for other reason	P: intervening document	&: members of the same family, corresponding document
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FR 0005639

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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
US 4339874 A	07-20-1982	US 4242610 A AT 23006 T DE 2967628 D EP 0013157 A	12-30-1980 11-15-1986 11-20-1986 07-09-1980
FR 2655784 A	06-14-1991	AT 102765 T DE 69007244 D DE 69007244 T DK 431514 T EP 0431514 A ES 2050917 T JP 4340340 A US 5091668 A	03-15-1994 04-14-1994 06-16-1994 06-20-1994 06-12-1991 06-01-1994 11-26-1992 02-25-1992
US 5162686 A	11-10-1992	FR 2655214 A AT 102764 T DE 69007243 D DE 69007243 T DK 430795 T EP 0430795 A ES 2052216 T WO 9108607 A JP 7057075 B JP 4500450 T	05-31-1991 03-15-1994 04-14-1994 06-16-1994 07-04-1994 06-05-1991 07-01-1994 06-13-1991 06-14-1995 01-23-1992
EP 0143693 A	06-05-1985	AUCUN	

EUROPEAN PATENT OFFICE

Application No.:

EUROPEAN SEARCH REPORT

EP 01 40 0981

DOCUMENTS CONSIDERED PERTINENT			
Category	Documents cited stating pertinent parts where necessary	Claims concerned of the examined application	Classification of the application (Int. Cl.)
X	US 5 841 212 A (MITA MASAHIRO ET AL) November 24, 1998 (1998-11-24) *Abstract; Figures 1, 2*	1	H02K1/27 H02K1/14 H02K21/16 H02K1/18
X	EP 0 872 943 A (JAPAN SERVO) October 21, 1998 (1998-10-21) *Column 2, line 5 - 12; figures 2, 6* *Column 2, line 28 - line 50*	1, 4	H02K11/00 H02K29/08 H02K3/18 H02K3/52
X	FR 2 784 815 A (VALEO EQUIP ELECTR MOTEUR) April 21, 2000 (2000-04-21) *Abstract; figures 1, 3* *Page 1, line 1 - line 5* *Page 1, line 15 - line 21* *Page 6, line 6 - line 27*	1, 2, 13	
X	EP 0 365 689 A (FANUC LTD) May 2, 1990 (1990-05-02) *Abstract; figure 8* *Page 1, line 33 - page 2, line 16* *Page 6, line 27 - page 7, line 33*	1, 2, 13	
X	WEINMANN D: "APPLICATION OF NDFEB-MAGNETS IN MOTORS" REVUE GENERALE DE L'ELECTRICITE, FR, RGE. PARIS, no. 4, April 1, 1991 (1991-04-01), pages 45-51, XP000227187 ISSN: 0035-3116	1	
A	*Abstract; figure 2B*	9-12	
X	EP 0 438 594 A (FANUC LTD) July 31, 1991 (1991-07-31) *column 3, line 20 - line 22; figure 4*	1, 13, 14	
X	US 5 162 686 A (ROYER LAURENT) November 10, 1992 (1992-11-10)	1, 5, 13	
A	*Abstract; figures 1, 5, 6* *Column 2, line 7 - line 17*	6, 7, 9-12	
X	US 5 091 668 A (BENDAHDANE BOUZIANE ET AL) February 25, 1992 (1992-02-25) *column 2, line 1 - line 5; figure 4*	1, 5, 8	
			Search Classes (Int. Cl. 7)
			H02K

X	EP 0 866 540 A (ELECTRIC BOAT CORP) September 23, 1998 (1998-09-23) *Abstract; figures 4, 1, 2* *Column 3, line 44 - line 55* *Column 5, line 14 - line 20*	1, 5-7,14											
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 8, October 6, 2000 (2000-10-06) & JP 2000 152537 A (CONCEPTION & AMP; DEV MICHELIN SA), May 30, 2000 (2000-05-30) *Abstract*	1, 16											
The present search report is established for all claims													
Place of Search LA HAYE		Date of Search July 11, 2001	Examiner Contreras Sampayo, J										
<p>CATEGORIES OF DOCUMENTS CITED</p> <table> <tr> <td>X: particularly pertinent by itself</td> <td>T: theory or principle at the basis of the invention</td> </tr> <tr> <td>Y: particularly pertinent in combination with another document in the same category</td> <td>E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date</td> </tr> <tr> <td>A: pertinent to at least one claim or general technological background</td> <td>D: cited in application</td> </tr> <tr> <td>O: unwritten disclosure</td> <td>L: cited for other reason</td> </tr> <tr> <td>P: intervening document</td> <td>&: members of the same family, corresponding document</td> </tr> </table>				X: particularly pertinent by itself	T: theory or principle at the basis of the invention	Y: particularly pertinent in combination with another document in the same category	E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date	A: pertinent to at least one claim or general technological background	D: cited in application	O: unwritten disclosure	L: cited for other reason	P: intervening document	&: members of the same family, corresponding document
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APPENDIX TO SEARCH REPORT FOR EUROPEAN PATENT APPLICATION NO.

EP 01 40 0981

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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
US 5841212 A	11-24-1998	JP 9285050 A	10-31-1997
EP 0872943 A	10-21-1998	JP 11004553 A	01-06-1999
		TW 380329 B	01-21-2000
FR 2784815 A	04-21-2000	AUCUN	
EP 0365689 A	05-02-1990	JP 1278247 A	11-08-1989
		DE 68904728 D	03-18-1993
		DE 68904728 T	09-02-1993
		WO 8910653 A	11-02-1989
		KR 9200685 B	01-20-1992
EP 0438594 A	07-31-1991	JP 3032333 A	02-12-1991
		DE 69015606 D	02-09-1995
		DE 69015606 T	08-24-1995
		WO 9100638 A	01-10-1991
US 5162686 A	11-10-1992	US 5157297 A	10-20-1992
		FR 2655214 A	05-31-1991
		AT 102764 T	03-15-1994
		DE 69007243 D	04-14-1994
		DE 69007243 T	06-16-1994
		DK 430795 T	07-04-1994
		EP 0430795 A	06-05-1991
		ES 2052216 T	07-01-1994
		WO 9108607 A	06-13-1991
		JP 7057075 B	06-14-1995
US 5091668 A	02-25-1992	JP 4500450 T	01-23-1992
		FR 2655784 A	06-14-1991
		AT 102765 T	03-15-1994
		DE 69007244 D	04-14-1994
		DE 69007244 T	06-16-1994
		DK 431514 T	06-20-1994
		EP 0431514 A	06-12-1991
		ES 2050917 T	06-01-1994
		JP 4340340 A	11-26-1992
EP 0866540 A	09-23-1998	US 5952755 A	09-14-1999
		JP 10327548 A	12-08-1998
JP 2000152537 A	05-30-2000	EP 1001507 A	05-17-2000

For all information concerned with this Annex: See Official Journal of European Patent Office No. 12/82.

EUROPEAN PATENT OFFICE

EUROPEAN SEARCH REPORT

Application No.:

EP 02 29 1384

DOCUMENTS CONSIDERED PERTINENT			
Category	Documents cited stating pertinent parts where necessary	Claims concerned of the examined application	Classification of the application (Int. Cl. 7)
X	US 4 339 874 A (MC CARTY FREDERICK B ET AL) 20 July 1982 (1982-07-20)	1	H02K1/27
Y	*column 1, line 55-line 61; figure 1	2-5,10,12,13	H02K1/14
	*		H02K21/16
	column 2, line 64-line 66		H02K1/18
	column 3, line 32-line 39		H02K11/00
	claim 1		H02K29/08
Y	FR 2 784 815 A (VALEO EQUIP ELECTR MOTEUR) 21 April 2000 (2000-04-21)	2	H02K3/18
	abstract; figures 1,3		H02K3/52
	page 1, line 1-line 5		H02K15/03
	page 1, line 15-line 21		
	page 6, line 6-line 27		
Y	US 5 162 686 A (ROYER LAURENT) 10 November 1992 (1992-11-10)	3-5,10	
	abstract; figures 1,5,6		
	column 2, line 7-line 17		
Y	EP 0 438 594 A (FANUC LTD) 31 July 1991 (1991-07-31)	12,13	
	*column 3, line 20-line 22; figure 4		
	*		
A	US 5 091 668 A (BENDAHMANE BOUZIANE ET AL) 25 February 1992 (1992-02-25)		Search Classes (Int. Cl. 7)
	column 2, line 1-line 5; figure 4		H02K
A	PATENT ABSTRACTS OF JAPAN Vol. 2000, no. 08, 6 October 2000 (2000-10-06) & JP 2000 152537 A (CONCEPTION &DEV MICHELIN SA), 30 May 2000 (2000-05-30)	13	
	abstract		
The present search report is established for all claims			
Place of Search		Date of Search	Examiner
La Haye		16 August 2002	Contreras Sampayo, J
CATEGORIES OF DOCUMENTS CITED			
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EP 02 29 1384

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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
US 4339874 A	20-07-1982	US 4242610 A AT 23006 T DE 2967628 D1 EP 0013157 A1	30-12-1980 15-11-1986 20-11-1986 09-07-1980
FR 2784815 A	21-04-2000	FR 2784815 A1	21-04-2000
US 5162686 A	10-11-1992	FR 2655214 A1 AT 102764 T DE 69007243 D1 DE 69007243 T2 DK 430795 T3 EP 0430795 A1 ES 2052216 T3 WO 9108607 A1 JP 7057075 B JP 4500450 T	31-05-1991 15-03-1994 14-04-1994 16-06-1994 04-07-1994 05-06-1991 01-07-1994 13-06-1991 14-06-1995 23-01-1992
EP 0438594 A	31-07-1991	JP 3032333 A DE 69015606 D1 DE 69015606 T2 EP 0438594 A1 WO 9100638 A1 US 5157297 A	12-02-1991 09-02-1995 24-08-1995 31-07-1991 10-01-1991 20-10-1992
US 5091668 A	25-02-1992	FR 2655784 A1 AT 102765 T DE 69007244 D1 DE 69007244 T2 DK 431514 T3 EP 0431514 A1 ES 2050917 T3 JP 4340340 A	14-06-1991 15-03-1994 14-04-1994 16-06-1994 20-06-1994 12-06-1991 01-06-1994 26-11-1992
JP 2000152537 A	30-05-2000	EP 1001507 A1 US 2002047424 A1	17-05-2000 25-04-2002

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SEARCH REPORT

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FA 604680
FR 0108933

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application											
Category	Documents cited stating pertinent parts where necessary												
X	EP 0 669 699 A (FICHTEL & SACHS AG) 30 August 1995 (1995-08-30)	1-7	H02K1/14 H02K3/38 H02K15/02 H02K21/14										
Y	*abstract; claims 1,2,10; figure 1 *	8-10											
X	DE 195 03 610 A (ZAJC FRANC ;ZAJC IVICA (SI)) 14 August 1996 (1996-08-14) *column 7, line 28-line 33* *column 7, line 54-line 63* *figure 7*	1,4,6,7											
Y	DE 199 03 409 C (SYSTEM ANTRIEBSTECHNIK DRESDEN) 20 July 2000 (2000-07-20) *abstract* *figure*	8,10	Search Classes (Int. Cl. 7) H02K B60K										
Y	PATENT ABSTRACTS OF JAPAN Vol. 2000, no. 14, 5 March 2001 (2001-03-05) -& JP 2000 333407 A (TADA SEIICHI;AKATANI MASAMI), 30 November 2000 (2000-11-30) *abstract; figures 1,2*	9											
Date of Search: 17 December 2001		Examiner: Contreras Sampayo, J											
<p>CATEGORIES OF DOCUMENTS CITED</p> <table border="0"> <tr> <td>X: particularly pertinent by itself</td> <td>T: theory or principle at the basis of the invention</td> </tr> <tr> <td>Y: particularly pertinent in combination with another document in the same category</td> <td>E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date</td> </tr> <tr> <td>A: pertinent to at least one claim or general technological background</td> <td>D: cited in application</td> </tr> <tr> <td>O: unwritten disclosure</td> <td>L: cited for other reason</td> </tr> <tr> <td>P: intervening document</td> <td>&: members of the same family, corresponding document</td> </tr> </table>				X: particularly pertinent by itself	T: theory or principle at the basis of the invention	Y: particularly pertinent in combination with another document in the same category	E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date	A: pertinent to at least one claim or general technological background	D: cited in application	O: unwritten disclosure	L: cited for other reason	P: intervening document	&: members of the same family, corresponding document
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FR 0108933
FA 604680

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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
EP 0669699 A	30-08-1995	DE 4406471 A1 BR 9404789 A EP 0669699A1 JP 7264793 A	21-09-1995 24-10-1995 30-08-1995 13-10-1995
DE 19503610 A	14-08-1996	DE 19503610 A1 JP 8265996 A US 5744888 A	14-08-1996 11-10-1996 28-04-1998
DE 19903409 C	20-07-2000	DE 19903409 C1	20-07-2000
JP 2000333407 A	30-11-2000	NONE	

REPUBLIC OF FRANCE

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SEARCH REPORT

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National Registration No.:

FA 601594
FR 0105187

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	
Category	Documents cited stating pertinent parts where necessary		
A	EP 0 777 312 A (MULFINGEN ELEKTROBAU EBM) 4 June 1997 (1997-06-04) * column 4, line 14 - line 26 * * column 5, line 29 - line 42 * * column 6, line 44 - line 46; figures 2, 7 *	1	H02K1/14 H02K3/38 H02K15/02 H02K21/14
A	EP 1 050 948 A (MANNESMANN SACHS AG) 8 November 2000 (2000-11-08) * claim 1; figure 1 *	1	
A	DE 700 420 C (SIEMENS) 21 November 1940 (1940-11-21) * figures 1, 2 *	3	Search Classes (Int. Cl. 7) H02K B60K
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) - & JP 10 126990 A (HITACHI LTD), 15 May 1998 (1998-05-15) * abstract; figures 2, 6C *	4, 5	
A	EP 0 872 943 A (JAPAN SERVO) 21 October 1998 (1998-10-21) * figures 2, 3 *	8	
Date of Search: 17 January 2002		Examiner: Contreras Sampayo, J	
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FA 601594
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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
EP 0777312 A	04-06-1997	DE 19544830 A1 DE 59606820 D1 EP 0777312 A2 US 5828147 A	05-06-1997 31-05-2001 04-06-1997 27-10-1998
EP 1050948 A	08-11-2000	DE 19920127 A1 EP 1050948 A2 JP 2000333418 A	16-11-2000 08-11-2000 30-11-2000
DE 700420 C		NONE	
JP 10126990 A	15-05-1998	NONE	
EP 0872943 A	21-10-1998	EP 0872943 A1 JP 11004553 A TW 380329 B US 6335582 B1	21-10-1998 06-01-1999 21-01-2000 01-01-2002

REPUBLIC OF FRANCE

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SEARCH REPORT

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National Registration No.:

FA 601596
FR 0105189

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application	
Category	Documents cited stating pertinent parts where necessary		
X	GB 258 981 A (BRITISH LIGHTING AND IGNITION; JAMES COCHRANE HUTTON) 7 October 1926 (1926-10-07)	1,4,9	H02K1/14 H02K21/16
Y	* page 1, line 25 - line 37 *	2,3,5-8 10	
A	* page 1, line 46 - line 50 * * page 1, line 58 * * page 1, line 74 - line 79 * * page 2, line 49 - line 72; figure 1 *		
Y	US 5 729 072 A (KIKUCHI SEIJI ET AL) 17 March 1998 (1998-03-17) * column 4, line 48 - line 60 * * column 6, line 25 - line 28; figure 2 *		Search Classes (Int. Cl. 7) H02K
Y	DE 700 420 C (SIEMENS) 21 November 1940 (1940-11-21) * figure 2 *	5,6	
Y	EP 0 872 943 A (JAPAN SERVO) 21 October 1998 (1998-10-21) * abstract; figure 2 *	7,8	
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 07, 31 August 1995 (1995-08-31) -& JP 07 107707 A (SHIBAURA ENG WORKS CO LTD), 21 April 1995 (1995-04-21) * abstract; figures 1,2 *	10	
Date of Search: 29 January 2002		Examiner: Contreras Sampayo, J	
CATEGORIES OF DOCUMENTS CITED			
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FR 601596

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These members were contained in the database of the European Patent Office as of 29-01-2002
The information supplied is for information only and neither the European Patent Office nor the French Government incurs any liability thereunder.

Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
GB 258981 A	07-10-1926	NONE	
US 5729072 A	17-03-1998	JP 6105487 A	15-04-1994
DE 700420 C		NONE	
EP 0872943 A	21-10-1998	EP 0872943 A1 JP 11004553 A TW 380329 B US 6335582 B1	21-10-1998 06-01-1999 21-01-2000 01-01-2002
JP 07107707 A	21-04-1995	NONE	

EUROPEAN PATENT OFFICE

Application No.:

EUROPEAN SEARCH REPORT

EP 02 29 0956

DOCUMENTS CONSIDERED PERTINENT													
Category	Documents cited stating pertinent parts where necessary	Claims concerned of the examined application	Classification of the application (Int. Cl. 7)										
A	EP 0 777 312 A (MULFINGEN ELEKTROBAU EBM) 4 June 1997 (1997-06-04) * column 4, line 14 - line 26 * * column 5, line 29 - line 42 * * column 6, line 44 - line 46; figures 2, 7 *	1	H02K3/18 H02K3/52										
A	EP 1 050 948 A (MANNESMANN SACHS AG) 8 November 2000 (2000-11-08) * claim 1; figure 1 *	1											
A	DE 700 420 C (SIEMENS) 21 November 1940 (1940-11-21) * figures 1, 2 *	3											
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) - & JP 10 126990 A (HITACHI LTD), 15 May 1998 (1998-05-15) * abstract; figures 2, 6C *	4, 5											
A	EP 0 872 943 A (JAPAN SERVO) 21 October 1998 (1998-10-21) * figures 2, 3 *	8											
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Place of Search LA HAYE		Date of Search 26 June 2002	Examiner Contreras Sampayo, J										
<p>CATEGORIES OF DOCUMENTS CITED</p> <table border="0"> <tr> <td>X: particularly pertinent by itself</td> <td>T: theory or principle at the basis of the invention</td> </tr> <tr> <td>Y: particularly pertinent in combination with another document in the same category</td> <td>E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date</td> </tr> <tr> <td>A: pertinent to at least one claim or general technological background</td> <td>D: cited in application</td> </tr> <tr> <td>O: unwritten disclosure</td> <td>L: cited for other reason</td> </tr> <tr> <td>P: intervening document</td> <td>&: members of the same family, corresponding document</td> </tr> </table>				X: particularly pertinent by itself	T: theory or principle at the basis of the invention	Y: particularly pertinent in combination with another document in the same category	E: patent document benefiting from a date prior to the filing date which was not published until this filing date or a subsequent date	A: pertinent to at least one claim or general technological background	D: cited in application	O: unwritten disclosure	L: cited for other reason	P: intervening document	&: members of the same family, corresponding document
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APPENDIX TO SEARCH REPORT FOR EUROPEAN PATENT APPLICATION NO.

EP 02 29 0956

This appendix gives the members of the family of patents relating to the patent documents cited in the above-identified search report. These members were contained in the database of the European Patent Office as of 26-06-2002. The information supplied is for information only and the European Patent Office does not incur any liability thereunder.

Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
EP 0777312 A	04-06-1997	DE 19544830 A1 DE 59606820 D1 EP 0777312 A2 US 5828147 A	05-06-1997 31-05-2001 04-06-1997 27-10-1998
EP 1050948 A	08-11-2000	DE 19920127 A1 EP 1050948 A2 JP 20000333418 A US 6369473 B1	16-11-2000 08-11-2000 30-11-2000 09-04-2002
DE 700420 C	19-12-1940	NONE	
JP 10126990 A	15-05-1998	NONE	
EP 0872943 A	21-10-1998	EP 0872943 A1 JP 11004553 A TW 380329 B US 6335582 B1	21-10-1998 06-01-1999 21-01-2000 01-01-2002

REPUBLIC OF FRANCE

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SEARCH REPORT

prepared on the basis of the latest
claims filed before the search was started

National Registration No.:

FA 601597
FR 0105190

DOCUMENTS CONSIDERED PERTINENT		Claims concerned of the examined application											
Category	Documents cited stating pertinent parts where necessary												
X	US 5 864 192 A (ISHIGURO AKIYOSHI ET AL) 26 January 1999 (1999-01-26)	1,5-7	H02K11/00 H02K1/14 H02K21/16										
Y	*abstract; figure 22*	2,3,8 11,12											
X	EP 1 010 660 A (MITSUBISHI ELECTRIC CORP) 21 June 2000 (2000-06-21)	1,5,7											
A	*paragraph 0040!-paragraph '0041!; figure 4 *	2	Search Classes (Int. Cl. 7)										
Y	PATENT ABSTRACTS OF JAPAN Vol. 1995, no. 07, 31 August 1995 (1995-08-31) -&JP 07 107707 A (SHIBAURA ENG WORKS CO LTD), 21 April 1995 (1995-04-21) *abstract; figure 1*	2,3,8	H02K										
Y	EP 0 438 594 A (FANUC LTD) 31 July 1991 (1991-07-31) * column 3, line 20-line 22; figure 4 *	11,12											
A	US 4 617 725 A (HOLTER WARREN G ET AL) 21 October 1986 (1986-10-21) *column 2, line 31-line 48; figure 1 *	9											
Date of Search: 25 January 2002		Examiner: Contreras Sampayo, J											
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APPENDIX TO SEARCH REPORT FOR FRENCH PATENT APPLICATION NO.

FR 0105190

FA 601597

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These members were contained in the database of the European Patent Office as of 25 January 2002

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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
US 5864192 A	26-01-1999	CA 2139584 A1 CN 1085695 A, B CN 1147718 A, B DE 69331195 D1 EP 0650246 A1 WO 9401920 A1 JP 2699655 B2 SG 52509 A1	20-01-1994 20-04-1994 16-04-1997 03-01-2002 26-04-1995 20-01-1994 19-01-1998 28-09-1998
EP 1010660 A	21-06-2000	WO 9841467 A1 EP 1010660 A1 US 6328136 B1	24-09-1998 21-06-2000 11-12-2001
JP 07107707 A	21-04-1995	NONE	
EP 0438594 A	31-07-1991	JP 3032333 A DE 69015606 D1 DE 69015606 T2 EP 0438594 A1 WO 9100638 A1 US 5157297 A	12-02-1991 09-02-1995 24-08-1995 31-07-1991 10-01-1991 20-10-1992
US 4617725 A	21-10-1986	NONE	

EUROPEAN PATENT OFFICE

Application No.:

EUROPEAN SEARCH REPORT

EP 02 29 0952

DOCUMENTS CONSIDERED PERTINENT			
Category	Documents cited stating pertinent parts where necessary	Claims concerned of the examined application	Classification of the application (Int. Cl. 7)
X	GB 258 981 A (BRITISH LIGHTING AND IGNITION; JAMES COCHRANE HUTTON) 7 October 1926 (1926-10-07)	1,4,9, 13,14	H02K1/14 H02K1/18 H02K11/00
Y	*page 1, line 25-line 37*	2,3,5-8, 11,12	
A	*page 1, line 46-line 50* *page 1, line 58* *page 1, line 74-line 79* *page 2, line 49-line 72; figure 1*	10	
Y	US 5 729 072 A (KIKUCHI SEIJI ET AL) 17 March 1998 (1998-03-17) *column 4, line 48-line 60* *column 6, line 25-line 28; figure 2*	2,3	
Y	DE 700 420 C (SIEMENS) 21 November 1940 (1940-11-21) *figure 2*	5,6	
Y	EP 0 872 943 A (JAPAN SERVO) 21 October 1998 (1998-10-21) *abstract; figure 2*	7,8,11 12	
A	PATENT ABSTRACTS OF JAPAN Vol. 1995, no. 07, 31 August 1995 (1995-08-31) -& JP 07 107707 A (SHIBAURA ENG WORKS CO LTD), 21 April 1995 (1995-04-21) *abstract; figures 1, 2*	10	Search Classes (Int. Cl. 7) H02K
A	EP 0 909 009 A (SINANO ELECTRIC ;MITSUBISHI HEAVY IND LTD (JP)) 14 April 1999 (1999-04-14) *paragraphs '0038!', '0040!*	13	
The present search report is established for all claims			
Place of Search		Date of Search	Examiner
La Haye		25 June 2002	Contreras Sampayo, J
CATEGORIES OF DOCUMENTS CITED			
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EUROPEAN PATENT OFFICE

Application No.:

EUROPEAN SEARCH REPORT

EP 02 29 0952

DOCUMENTS CONSIDERED PERTINENT			
Category	Documents cited stating pertinent parts where necessary	Claims concerned of the examined application	Classification of the application (Int. Cl. 7)
A	US 5 838 086 A (CUENOT ALAIN ET AL) 17 November 1998 (1998-11-17) *column 1, line 65- line 67*	14	
			Search Classes (Int. Cl. 7)
			H02K
The present search report is established for all claims			
Place of Search	Date of Search	Examiner	
La Haye	25 June 2002	Contreras Sampayo, J	
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EP 02 29 0952

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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
GB 258981 A	07-10-1926	NONE	
US 5729072 A	17-03-1998	JP 6105487 A	15-04-1994
DE 700420 C	19-12-1940	NONE	
EP 0872943 A	21-10-1998	EP 0872943 A1 JP 11004553 A TW 380329 B US 6335582 B1	21-10-1998 06-01-1999 21-01-2000 01-01-2002
JP 07107707 A	21-04-1995	NONE	
EP 0909009 A	14-04-1999	JP 11098791 A CN 1213882 A,B EP 0909009 A1 TW 417347 B	09-04-1999 14-04-1999 14-04-1999 01-01-2001
US 5838086 A	17-11-1998	FR 2723272 A1 AT 160473 T DE 69501066 D1 DE 69501066 T2 DK 695018 T3 EP 0695018 A1 ES 2109061 T3 GR 3026007 T3	02-02-1996 15-12-1997 02-01-1998 12-03-1998 22-12-1997 31-01-1996 01-01-1998 30-04-1998

EUROPEAN PATENT OFFICE

EUROPEAN SEARCH REPORT

Application No.:

EP 02 29 0953

DOCUMENTS CONSIDERED PERTINENT													
Category	Documents cited stating pertinent parts where necessary	Claims concerned of the examined application	Classification of the application (Int. Cl. 7)										
A	US 6 025 665 A (TEVAARWERK JOSEPH ET AL) 15 February 2000 (2000-02-15) *column 10, line 7-line 26; figures 5,9A,11B*		H02K29/08 H02K3/18										
A	US 5 864 192 A (ISHIGURO AKIYOSHI ET AL) 26 January 1999 (1999-01-26) *abstract; figure 22*	1-3,5-8 11											
A	EP 1 010 660 A (MITSUBISHI ELECTRIC CORP) 21 June 2000 (2000-06-21) *paragraph '0040!-paragraph '0041!; figure 4 *	1,2,5,7											
A	PATENT ABSTRACTS OF JAPAN Vol. 1995, no. 07 31 August 1995 (1995-08-31) -& JP 07 107707 A (SHIBAURA ENG WORKS CO LTD), 21 April 1995 (1995-04-21) *abstract; figure 1*	2,3,8											
A	EP 0 438 594 A (FANUC LTD) 31 July 1991 (1991-07-31) *column 3, line 20-line 22; figure 4 *	11											
A	US 4 617 725 A (HOLTER WARREN G ET AL) 21 October 1986 (1986-10-21) *column 2, line 31-line 48; figure 1 *	9	Search Classes (Int. Cl. 7) H02K										
The present search report is established for all claims													
Place of Search La Haye		Date of Search 26 June 2002	Examiner Contreras Sampayo, J										
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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
US 6025665 A	15-02-2000	AU 6278498 A EP 0962042 A2 WO 9837618 A2	09-09-1998 08-12-1999 27-08-1998
US 5864192 A	26-01-1999	CA 2139584 A1 CN 1085695 A,B CN 1147718 A, B DE 69331195 D1 EP 0650246 A1 WO 9401920 A1 JP 2699655 B2 SG 52509 A1	20-01-1994 20-04-1994 16-04-1997 03-01-2002 26-04-1995 20-01-1994 19-01-1998 28-09-1998
EP 1010660 A	21-06-2000	CN 1248956 A WO 9841467 A1 US 6349796 B1 EP 1010660 A1 US 6328136 B1 US 2002027047 A1 US 6344089 B1 US 2002027048 A1	29-03-2000 24-09-1998 26-02-2002 21-06-2000 11-12-2001 07-03-2002 05-02-2002 07-03-2002
JP 07107707 A	21-04-1995	NONE	
EP 0438594 A	31-07-1991	JP 3032333 A DE 69015606 D1 DE 69015606 T2 EP 0438594 A1 WO 9100638 A1 US 5157297 A	12-02-1991 09-02-1995 24-08-1995 31-07-1991 10-01-1991 20-10-1992
US 4617725 A	21-10-1986	NONE	

EUROPEAN PATENT OFFICE

EUROPEAN SEARCH REPORT

Application No.:

EP 02 29 0954

DOCUMENTS CONSIDERED PERTINENT													
Category	Documents cited stating pertinent parts where necessary	Claims concerned of the examined application	Classification of the application (Int. Cl. 7)										
Y	PATENT ABSTRACTS OF JAPAN Vol. 010, no. 091 (E-394), 9 April 1986 (1986-04-09) & JP 60 234451 A (SHINKO DENKI KK), 21 November 1985 (1985-11-21) *abstract; figures 2,1*	1,3-7,9, 12	B60K7/00 H02K1/14 H02K21/22 H02K7/10 H02K7/14 H02K1/27										
Y	EP 0 669 699 A (FICHTEL & SACHS AG) 30 August 1995 (1995-08-30) *abstract; claims 1,2,10; figure 1 *	1,3-7,9, 12											
A	DE 199 03 409 C (SYSTEM ANTRIEBSTECHNIK DRESDEN) 20 July 2000 (2000-07-20) *abstract* *figure*	8,10,13, 14											
A	DE 195 03 610 A (ZAJC FRANC ;ZAJC IVICA (SI)) 14 August 1996 (1996-08-14) *column 7, line 28-line 33* *column 7, line 54-line 63* *figure 7*												
A	PATENT ABSTRACTS OF JAPAN Vol. 2000, no. 14, 5 March 2001 (2001-03-05) -&JP 2000 333407 A (TADA SEIICHI;AKATANI MASAMI), 30 November 2000 (2000-11-30) *abstract; figures 1,2*		Search Classes (Int. Cl. 7) B60K H02K										
The present search report is established for all claims													
Place of Search La Haye		Date of Search 28 June 2002	Examiner Contreras Sampayo, J										
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Patent Document Cited in Search Report	Publication Date	Member(s) of Patent Family	Publication Date
JP 60234451 A	21-11-1985	NONE	
EP 0669699 A	30-08-1995	DE 4406471 A1 BR 9404789 A EP 0669699 A1 JP 7264793 A	21-09-1995 24-10-1995 30-08-1995 13-10-1995
DE 19903409 C	20-07-2000	DE 19903409 C1	20-07-2000
DE 19503610 A	14-08-1996	DE 19503610 A1 JP 8265996 A US 5744888 A	14-08-1996 11-10-1996 28-04-1998
JP 2000333407 A	30-11-2000	NONE	